

**OMMODORE** 



Latest Games Reviewed: Platoon A Mini-putt A Border Zo







\* Communications Corner

. Games Update











Continuing our series this month we look	
ring modulation, synchronisotion a	nd
litering	
Software for Sale	80

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	Listings	82
	How to type in the programs	

### FEATURES

Ultimate Cartridges

\* Commodore Modem Revealed

· Sonus MIDI Music Programs

### UTILITIES

· Clear with Busic

\* Making GEOS British

VOLUME 4 NUMBER 7

## DATA STATEMENTS



DATA STATEMENT

### DATA STATEMENTS







The 1571 disk drive

ched even further

As a potential I'm oller taked supply articles on MS-DOS II format delot. This has meant using two processors which has differ commands to the one that I may see New, with the light Reader and New, with the light Reader.

an do all my work on the CLSOS and rease an MS-DOS disk using the energial 15TI dave and my conformaty conferences.

The Big Blue Reader from IOGWAP he has been around for a couple of soons but was not feely

to be pre-formatized using a sell program before the Brader-wait and the program was unable to a with CP/M program dake. To CP/M version corrects these if and adds a few state improve

into the bargain. The resultant program is powerful aid to anyone who has considered for the powerful aid to anyone who has considered for the powerful commodore. DOS, edg sector or non-sector MS-DOS at CL28 CP/M diskertor in either sing or double sided formats.

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**GWENT NPS 4YE** 

## Communications Corner

By David Janda

As sen of comm that is made

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TO REM LIST PAUSE

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IND SYS 49152 - REM START PROG



### The Action Replay MK IV Could be Yours

competition and you could be flying high with the Action Replay MK IV cartridge from Date!

Well, sou've mad about them seen pictures of them and now, here's your change to win one of Date! Action Riphylo MK IV carridges. The first ten correct carries palled out of the hast will become proad swince of the sought after carridges. So seen

your onry in now How to Feter

> Study the two cartoons of floor, are a number of between them. Once you le low, many differences complete the entry coupon

The Rules

Entries will not be an employees of Argus Publications and Dutel

The How to Enter section forms part of the rates. The folder's decision to first and no correspondency will be



Action Replay MK IV Ent Name

Amiga disk ....... (please tick as approp

pe Pint to: Your Commodore, Action Replay MK IV Comput ik I Golden Square, London WIR JAR

COMPANDADO --- O LEGO







YOUR COMMODORS april 1888

Basic Plus

Final Cartridge?

## Auto-Start Maker

iive your disk programs that professional look by making them auto-start By K. Gadden

A tmost every piece of commercial subvace anno-starts when loaded from dob. Farriber moce, many have secress that are displayed while the program is loading, picing information about the author or program instructions.

souling interpretations and of the control of the c

restriction Plus

ogan man an extendency of your program and-contining, because the program and an animal point from profession per management from profession year. A simple method of production would be to make the following introduction the first in year program POSE, 885,231.

This spate simply disables the BUNNSTOP and RESTORE logical to the program of the progra

the program length, also inch is the leading unsen. I dispired program type: 'programs' 'A.I El mast not be left east or it will not RUN. If the Bus loads any machine code filloads' contain. POKE 157

Starting a Program and breakdown of the opera

given below. Careful minding as following of these instructions also give mecons overy time.

To start the AUTO-STAB MAKER simply LOAD and RUN. These will be a short delay white loads two machine code files for disk. The mainment is then present The MINU! has the following-priority.

opionism.

(DMMENCE AUTO-START PRO-CEDURE — This opinism reads to the control of the control of

scition.

The interference with the above equivalent to the above equivalent t

serees. P2 allows you in design you own screen. Use the nemal keyboan characters and reliving keys (range tot,) to design your screen. Who the center comes to the bestorn of the screen is well appear at the tay. The solvier keys bare no effect or the display as the colour of the leading screen is per-demanded by the colou managing and loading. Once your sereen is designed proc.

Once year server is designed p
F1 to finish.
Next select the COMMEN
AUTO-START PROCEDIU
option [F1]. You will then be add
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in time or the program that you no convert to auto-start.

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LIB COMMODORP ----

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## Clear With Basic

By N. Hippins

Using the RON

## Games Update The perceptive among you will

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otally rained by in game design, of nelecting y islad series of acts houghton acrod a win-box. You have and and point to be word. Timing ou misjudge this y has defect someth from what

their fourth autorianately th After imade black hole, you strange region structures that quickly as your lank is to locust your radar and progree through

tange region containing histories that represents all pitchy as you can blast the sak is to locate all the Sau cor radar and collect them regress through the various a you can gain on-ordinates a to too kip levels.

Although the game is sery:

LEGEND OF THE AMAZO OMNEN from Mastertronic in infectably screding basis wings in seasons were a fencious orbit of male warriors although you weigh your good in from this as they loss over like they are trying to indule one with feather dissert earther than to such others brains out. All aid and to other brains out. All aid in 50 wigs to delige materiary active the 11 a mile. ARAC from Addetive is a mer ARAC from Addetive is a mer.

and of being a

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Another shooteness go on offer
A.A.C.H. fores Starvisson, a Dani company. Again, the pite in someon, inwition. As Knight of the Galacy, yo to Trying to resear three planess free



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 filely to tempt anyone other than arrade finals, is the offer of an A should you find the secret gazes Otherwise, you've seen it all belladget Games As well as intrivering proof missing and power cotty on must also against the large and power cotty on must also against the large and the property of the pro

the Cort same user of over 17% it is only Oth strend that you would want to pust to the ore shough its pace. The only trobe is that the local police are non-COS and hoppy if you try so hers then off.

CODE HUNTER from Fireby yes building against a bazilo sakanova origin. Year early his discover the necessary on feasitistic is. To do this, you enter each of the computer or and desired the guards there



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this that you play from the cord your own artichair, presume th a own or two of ale compositions.

There are a number of quicks is not such as players snapping sis it may through the creens but on ode. Pub games is a good laugh a worthwhite, are idner in all the





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## **Tabulate**

By D.J. Tripp

Coversion are excellent for

### TABULATE makes use of the

headings are printed by assigning the Va

FORMAT STRINGFMS

**Tabulate** 

Formotting with Tabulate -

**Tabulate** 

C64 REVIEW

# Mini-Putt





NOW FVEN MORE POWERFUL, MORE FRIENDLY AND WIL 2019

Action Replay works by taking a "SNAPSHOT" of the program in memory so it doesn't matter how the program was loaded - from tape or disk, - at normal or turbo speed.

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available at the touch of a key. All features with both TAPE and DISK. (Except multipa

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### **Bothersome** Basic

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m state}$  we can induly countries in

# ·C·P·U·G

### Commodore Modem Revealed

Why suffer the deficiencies of commercial software for

By S. Henderson



by Commendate modern is used by

### Auto-dialling

The annotating features of the modest are fairly powerful. To program at the enter of the anaparie will assumptionally dial in number, get a more from the DATA manuscem and then segage in user to sort obs-The F1 and F3 keys are used.

and then organic in user to user the The F1 and F3 keys are used swap between who is needing and with its receiving, and the F7 key will difthe line. Note that if only one or procure F7, the line will still connected for the other person, self-

connected for the other person, unlibe keys F7.

The BUN/STOP key is NO deadled, so do not prove it when use this program, or the modern w

resuin on line. To stop this, use the modern RESET command. (POKE56832,5:POKE56833,32) This article should have whether

start writing year on year Commodore mo B1 1 LTXRDY - B2 B1 6 - LRDRDY - 8X B2 6 - LRDRDY - 8X B2 5 - LDCD - 2 = B2 5 - LDCD - 2 = B2 4 - LPERE - F2 B2 3 - LPERE - F2 B2 2 - LBDCD - 0 = B2 2 - LBDCD - 0 =

| Register 2 - MODE - READ. | Register 2 - MODE - READ. | Re 7 - LPO/E - Parky bit | Re 6 - LPO - Parky bit | Register 3 - COMMAND - WEITE. |

Engister 3 - COMMAND WETTE
Bit 7 - LRXIN - Receive or
Bit 6 - LTXIN - Transmit
Bit 5 - RESET - Set to not
cleared wi
complete
Bit 4 - LDBEN - Demodule

FERR - Training cross
PERR - Parity cross
DICCO - 0 sec. carrier
detect
2 - MODE - READ/WEITE
PO/E - Parity hi = old
low = sous
PEN - Parity hi = off
lyor = old

EN - Parky bi = off low = ost 200 - TX band bi = 1200 low = 15 - COMMAND - BEAD/ XIN - Receive mable XIN - Transmit enable

TRANSMIT
Register 6 - CONTROL FORT BEADVARITE
BE 2 - TXPILT - TX band file
BE 2 - TXPILT - TS band file
BE 0 - SEEZE - Seize fan
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TE BERDAY RITE

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Bit 5 - DEALGO - Set to star cleared who is dialled Bit 4 - 1.SSEC - 1.5 sec, tim bit 6 but sh

IS J.D-DIGIT - WRITE ONLY TO DIAL Use SOA # 19 for

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C64 REVI

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# PLATUUN

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merale and could and your game. In the village your scarch the bank of a youch, may point improve that leads upon you for paint two.

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### Teacher's Pet

By Margaret Webb



Then have been very few new





NPWHComing soon - Connect your NPSR03 DIRECTOR



# Making **GEOS British**

GEOdex UK OK!

ISSEPC File Transfer Littly ...



200 EMULATOR ASSEMBLER 64 das ELLIR A unique integrated 200 development package. The emulator compiles 236 source cook into optimised 6002 which suits such

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WINDOWS





THE FINAL CARTRIDGE III
Inserties hardware, combined with smart software, allow you to freeze and

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THE FINAL

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MENU

PRAIL GARRISMS in a super powerful interpretation from your 64/126 and 64/126 for your 64/126 perce and consisted bodies from backup perce and consisted bodies. But processing PEARS GARRISMS ST. (Bottoming Charges) prices and self-consisted powerful prices and consisted bodies.

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### -Border Zone-

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### The ICPUG Column

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DD00	SERIAL BUS IDESE 1/05	PRA	DISK CONTROL	(891)
DDH	USER PORT DO/D7	PRB	PARALLEL PRINTS	180.1
DD03				
		TAHI		
		(TODN)		
DDDC			Serial Data Register	

### "£229 for all that?"







The problem with Artificia





### Quite a Problem



artificial intellig nancly PROLOG, COLOURS

LEP will reply by or dest given which is and IRFD WHITE I

and (RED WHITT you took amony symbol, the LI ITEETE the en DEFINED. You turns by typing command called trainly a value.

SETO COLOURS SEATS

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for "that the flowthen he is in me programming decologics farterer. Dring containing the programming the progr

element at a time being projety.

LISP also allows identifiers are mothers to be most fixed, with lass It is a means in deal of hundling enrything via polation.

In the case of liets, these pointer will identify an individual horn of data and dentify an individual horn of data (III) and half of which oversee.

switter pointer. The left hand point fleet in the swift leads to the fit element in the second line, while d right hand one points to it remainder. So for the li-(AEC12...) we get the prefer

database gen rearly all of structures inh in to the stru-

Tests and Com

he ability so define a function so the emainst of a simple out, structus fermation may be built, sacod trieved, or arithmetic performed. action of LSSP. However, for moteresting programs can be produce to finalism or writer number such expressions are: (COND) (pendicate 1 expression 1) (producte 2 expression 2)

(T final expression) There can be as ma

When LISP finds a COND coprosion, it starm evaluating the given productes in order. The value is returns is that of the expression which is guind, with the first proficute so yield a "true" (i.e. the first expression to be returned with a non NIL vulge.



transgener consensering sign is a decisioner about what tends next; in a decisioner about what tends next; in a decisioner about what tends next; in a decisioner about the same of an and comparison between decisioner consideration between the comparison of the comparison

ng. "Iran" and "Itaho". In Accessible, LSS", Nill, usuad to reposent "Itaho", in self as the capty list such as the black list found at the end of a data in self as the considered to be any situation observed to be any situation of the observed of the data returned from a function is not "Itaho", thus we can use the wood T or proposent this quantity, fifterior T or count for its "Itaho" constitute the "Itaho" count for its "Itaho" constitute.

wises form can be read ac

rement
life.

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ISE IF preferent to "trac"

When ISE varies controls

When ISE varies controls

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of F production, it can be define the production, it can be defined an AND and OR. Each of those during an cope with an arbitrary name argaments. They evaluate

TOUR COMMODORE #

argaments. They evaluat arguments one at a time



### First Steps

learning about your computer

By Norman Dayle

MAIL ORDER

MUSIC GRADE EXAM TIMES

A regular anise to meet allows from readers made in accordance within the pure anise to meet allows for procedure after the Advantage has been



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The property of the approach of the property o

Mornolkey De la Company





ESO-1 Design, TX816 Design

# Backgrounds

Ry Paul Williams

### C64 PROGRAMMING

### Gyrospeed By Gary Saunders

Trender your existing single part

### CP/M Assembly Language **Programming**

By Paul Schofield

Assemblers and Compilers

Z80 Assembley Language

Creating a Program Menu

- Mess Disalay & Program

Assemblers

up sersion of their very popular. Spectrum assembler puckage and has the big beaus of a first class full-sersion office. This supposes Woodstar commands as default, but you can redefine them how you like. The second program is GENBO the assembler, nished has a powerful

commands as detailed, out you file, videfine them how you file, eccord program is GENB susembler, which has a pow MACRO facility and produces files directly. If you have run croblems then you load up MOO concrisi front panel debugger w silient you to see just w auppening. A first class pockage auppening. A first class pockage auppening. A first class pockage

### .....

CP/M gives you a good opportunity to come to grips with more cophisticated programming languages, but these who wish to remain faitful to the old sum here are well canned force; a Compler, Malland RASIC may be worth a look. This is exercisely the same BASIC as used in the Americal, but adapted for CP/M. For some

markens. A mere obvious choice thereforeight to McRASIC from Missoon who were the Commodor's MARI commodor's processes produces and policy commodors of the a price cast. Whatch out for pucka deals with MARI commodors for pucka deals with MARI commodors for a price cast. Whatch out for pucka deals with MARI commodors and doubtable price cast. The main admissing is the law consists of crashing software in 6 dialoct.

CRANIC, Digital Recently.

are with. A budget period version to compiler for the Americal is available, but it is generally expens. A fairly recent networker in BASE. This is suppressely in british to M-BASE, but has a superior extensions such as labelled to and GOSUB, amountaic indusing variable precision for floating prathmatic. It also provides some arthmatic in take previous some

the pick of the bunch.

in If you are thinking of a BASIC, Pascal is the and CP/M gives you some really top class y

owe really top ties produce. If you are an INFEG member (and no really should be if you are reading related) only serious Commodate (pagement) five you can get JRT ancal for the price of an entry data of privings. Ask for dalas (\$1.2, \$8.

LJ. I know nothing about this present you can be provinged.

are now judged of Revisary's Tier Poscil. This sees new standards performance, suchility and prior whi it was refuned and the opposition to only recently stands to each up, it often crisisted for its very so standard Poscal vascession (what is wanded or extremely), but about his million satisfied users will refly out, the the sines one and Volumethins? In the sines one and Volumethins?

isott lasguage soinen. Unfahr mar Paracah, ir allos has adequate precisic for ment scientific nork. If you has around 500, you can't go far was with Turbo.

A good low cox abstrative Passat20 from Hisoft, The confertably wiss the Passat ago stakes, but lacks accuracy in flexite point operations. The latest service

Pacel, At 540 this is a good pack for the beginner.

Two other compilers should,
be mentioned in this next ice, DRV:
Preself is a very good compiler, or consists CP/M libraries in usual but low not version have only as appeared for the Americal Pacies earner will insist on the full standard Prospero Pacel, it is ju-

C is the high level language fast by assembly language program who are feeted to use a high language as it allows you to ou

the bunch. BDSC, for example will not cont 2000 and only support arithmetic. For floatin sapability the choice less AZTEC C (19900x 1200) or AZTEC C (19900x 1200) or

capability the choice less better AZTEC Capprox (150) or EXOmention in choreological data but but 
relative bargain as about \$50. It 
systems went of course finaling per 
in not constrain and Hindri's offering 
accord 600 sheald sainly most erec 
although the performance is not the 
exciting to say the least.

### This is and Nicholas Wirth

and in quate similar to ADA. but in and in quantity of the property of the pro

point prevision and semation benchmarks, this product one desired to feathy deledge Test Fascal from the op-complex ap-Clie would in surrang, however, shi Modellars In avery good language those with no previous. Pacseptiment, as good tembooks arrive expensive.

### cetran & COBO

in Fortish is good vasic, similarly named and priced compiler, but for data applications DBASE II is better bet.

### Truchline:

E Devin TQ13 788. T the Software Toolsh School, Greenfield, 5 508. Tel: 0323 7182



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	74.5	1.0	

# Making Music

By Peter Gerrard

Were necessary in motor



YOUR COMMODORE sard 1986

# Low Pass Filter

Band Pass Filter

# Notch Reject Filter

Bits vers to three of this register and



using control V+22. 128 064 832 0 007 006 805 0

> 8 064 032 016 008 004 00; 7 006 005 004 003 002 00 0 0 0 0 1 1

This latter works in an one is our high value and frequencies already mass that is get the true frequen makings the value in regis by 250 and then add the sal register (V+22). Remember are write-only registers, and that are to be POSEE in PEESO out of their mast.

liss or 232. Thus we would F so Ye22\_POKE Ve2\_222.

Into I was a many the second of the many this list of the second of the many this list diagrams, programs and just list to the effects — went this space we'll explain further in our incalment of Muking Music.

LIFESAVERS 9 C64

after a NEW or system reset (

0 15. READ A:CX-CX+A:FOKE SA-L-1 60 KEAD A:IF A X CX THEMPRINT ER 80R IN LINE :LN (L\*10):STOP 70 MSXT L:EN 80 INTA:160.1:169.235.145.48,32 51.165.24[169.2.101.34,133.45.132 90 DXTA:169.0.101.35.133.46.72

end of progrem etc.
You could move OLD am a
Bachine code file and recall it
as meeded, without using the
Basic loader.
SYS 400 to start the OLD
Orogram.

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# Software for Sale

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of each few of the finding. Fret no more, it's all part of our case corry aid. Israeld of those most graphics and rows of counties spaces in PRINT statements and strings we see a special coding system. The code, or memories, is always contained in

square brackets and you'll soon learn to decipher their meanings.

For example, [SA] would mean type in a Shilted A, or an are of spades in become terms and SA MI would.

ocn't take a great hap of logic tonific that [C+2] means causely the ane thing swapt that the Commoore key (bettors left of the keyboard) i held down instead of the shift key. If more than two-space appear is a latenovel then this will be printed as

SPC4] or, exceptionally, [SSPC4]. Franklated into English this means proon the specifier four stimes or in the latter case hold the shift key down while you do it. A string allowed characters could unked BLUE while holding doe TRL kay, prior the F3 kay milly hold the Commodore kay this providing the number two kay would of course make the comrise in houses. Always remember that you is

Always remember that you is only have a row of graphics char on your screen with no square ber and no commun, unless seneithe this appears:

[88][C7]
In this case the two sharacters of

Or fair occasions (BIN T) as a delesymbol and is created by entiring the tree up on the memories. Then type closing specialism mark (BHFF & 2) and defert is. This gets the companter of the companion of the companion of the and price the number size is a trivially as the companion of the trivial trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the companion of the companion of the trivial of the companion of the compan

A list of these special cases is a or the table but remember that one of these macrocoles will apratiode of a PRINT string; the syor ps. This may appear when its o a monthly in a calculation on this N. CC=2\*[H]\*R: the Ignore the square brackets and justory type in a shifted upward pointing the arrow (ic. the pi symbol).

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# **OMMODORE** Listings



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